

## **NDGPS**

Nationwide Differential GPS is an augmentation of the Global Positioning System (GPS) that typically provides 1- to 3-meter positioning accuracy to receivers capable of receiving the differential correction signal. It is an expansion of the U.S. Coast Guard's Maritime DGPS network and makes use of decommissioned U.S. Air Force Ground Wave Emergency Network (GWEN). The GWEN sites have been customized to calculate and broadcast the differential correction signals. NDGPS is now providing single-station coverage over about 80 percent of the landmass of the continental U.S. and is expected to be fully operational with dual-station coverage throughout the continental U.S. in the near future. To ensure accuracy, integrity and continuity, NDGPS is managed and monitored 24 hours a day, 7 days a week from the Coast Guard's Navigation Center in Alexandria, Virginia. NDGPS also provides a GPS integrity monitoring capability; it gives an alarm to users within 6 seconds of detecting a fault with the signal from any GPS satellite in view. NDGPS signals are available to any user who acquires the proper receiver, without fee.

The Department of Transportation's Office of Navigation and Spectrum Policy (OST/P-47) chairs the NDGPS Policy and Implementation Team (PIT), which coordinates the NDGPS expansion effort. The functions of the NDGPS PIT are: to coordinate interagency actions affecting the NDGPS; to serve as a forum to raise, discuss and resolve issues concerning the NDGPS; to monitor compliance with interagency memoranda of agreement regarding the NDGPS; and to advise agencies as appropriate. The team consists of members from operating administrations which use the DGPS service (Coast Guard, Army Corps of Engineers, FRA, FHWA, ITS JPO) and stakeholders from other Departments (Commerce, Agriculture, Interior, Homeland Security).

### Useful Links:

- Federal Railroad Administration  
<[http://www.fra.dot.gov/rdv30/ndgps/ndgps\\_its.htm](http://www.fra.dot.gov/rdv30/ndgps/ndgps_its.htm)>
- Navcen NDGPS Page <<http://www.navcen.uscg.gov/ndgps/default.htm>>
- Federal Highway Administration Turner-Fairbanks Highway Research Center  
<<http://www.tfhrf.gov/its/ndgps/02072.htm>>
- National Oceanic and Atmospheric Administration National Geodetic Survey  
<<http://www.ngs.noaa.gov/CORS/>>